MARKOV, A.N., inzhener; KHARLAMOV, V.M., inzhener; IOFFE, Ye.F., inzhener; MIRONOV, Ye.P., dotsent; ZEYLIDZON, Ye.D., inzhener.

Extent of telecontrol of substations. Elek.sta.26 no.12:43-49 D '55. (MLRA 9:4)

1.Yaroslavskaya elektroenergeticheskaya sistema (for Markov).2.Glavnoye upravleniye elektrostantsiy i elektrosetey Yuga (for Kharlamov). 3.Tekhnicheskoye upravleniye MES (for Zeylidzon).
(Electric substations) (Remote control)

Ioffe, Ye. F.

112-1-611

Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957, Nr 1, p. 102 (USSR)

AUTHOR: Ioffe, Ye. F.

TITLE: Performance of Ribbed Porcelain Insulators in Transformer Oil Containing Carbon (O rabote rebristykh farforovykh izolyatorov v transformatornom masle, soderzhashchem uglerod)

PERIODICAL: Tr. Gor'kovsk. politekhn. in-ta, 1956, 12, Nr 1, pp. 77-80

ABSTRACT: Incidents of the damaging of the lower porcelain petticoats of the bushings of 110-kv oil circuit breakers with a large volume of oil which disconnected one or more k.z. (kontaktnoye zveno = contact unit) are noted. After the cutting off by the oil circuit breaker of the first k.z., the lower porcelain petticoats of the bushings operate in oil containing carbon (C) which enters into the oil in arc extinguishing process in the form of particles of various dimensions and as soot. Larger particles settle with time on the tank bottom and smaller suspended particles are found in a

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Performance of Ribbed Porcelain Insulators in Transformer Oil Containing Carbon (Cont.) 112-1-611

constant random (Brownian) movement. At the same time neutral suspended C-particles approaching the bushings are polarized, and pulled in by the electric field of the bushings, settle on the surface of the lower porcelain petticoats. At the same time the creeping discharge voltage is reduced. The C-particles deposited on the surface of the lower porcelain petticoat in the shape of branchy sprouts are seen on the photograph presented of the insulator of the MKT -160 type oil circuit breaker; deposits of C passing through the insulator rib create a conductive bridge on a certain part of the porcelain petticoat. It was established that the tangential electric strength of the bushings lower porcelain petticoats, which have only slightly developed ribbing and relatively small length, is insufficient for practical operating conditions in oil containing C. In order to prevent damaging the oil circuit breakers by flashover on the porcelain petticoat surface, it is necessary to step up their tangential electric strength and to improve conditions for the equalization of the electric field.

Ye.A.S.

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8(5) SOV/105-58-11-20/28

AUTHOR: Ioffe, Ye. F., Engineer (Gor'kiy)

TITLE: Electrical Power Engineering - On a New Level (Elektroenergetiku - na novuyu stupen')

PERIODICAL: Elektrichestvo, 1958, Nr 11, pp 84-85 (USSR)

ABSTRACT: This is a comment on the article by S. M. Gortinskiy and I. A. Syromyatnikov in Elektrichestvo, 1957, Nr 10, pp 1-4. All statements made in this article are fully justified, only the fuel problem should be included in the study. In each branch of economy this problem should be solved under active participation of the power administration. In this connection substantial deficiencies of the old power- and industry administration are pointed out. One of the principal reasons for a decentralization of power supply in a great number of small power stations was the fact that each authority made its own approach to power problems. This procedure proved to be of an equally detrimental effect when applied to fuel problems. Some cases grossly notorious for this administration incompetence are mentioned in this paper. The considerations presented in this

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paper lead to the following demands placed upon power engineering planning: 1) Power supply enterprises and fuel supply enterprises, if they supply only the respective district, are all to be merged under a single power administration. 2) The existing regulations concerning estimates of operational safety of power systems, which are included in the specifications for the classification of breakdowns, are to be revised as soon as possible, as they are greatly impeding the progressive trends in power engineering and the tendency of cost reduction of electrification. Branch-off supply lines from the 110 and 35 kV grid are to be made on a scope as wide as possible, as well as simplified substation circuits should be used.

IOFFE, Ye.F., inzh.

Certain problems in the development and operation of electric networks. Elek.sta. 29 no.8:51-53 Ag '58. (MIRA 11:11)
(Electric networks)

IOFFE, Yevsey Filippovich; DURKIN, N.I., red.; BRULIKOVSKAYA, R.G., tekhn.red.

[Power engineering] Energetika. Gor'kii, Gor'kovskoe knizhnoe izd-vo, 1959. 34 p. (MIRA 13:4)
(Power engineering)

GRUDINSKIY, P.G., prof.; PRODANOV, L.V., inzh.; IOFFE, Ye.F., inzh.

Concerning V.M.Kedrin's article. Elek.sta. 34 no.2:71-72 F '63.
(MIRA 16:4)

(Electric power plants)

IOFFE, Ye.I.; KONDRAT'YEVA, G.B.; OVCHINNIKOVA, N.P.

Survival of the causative agents of dysentery on various objects in foci of infection. Zhur.mikrobiol.epid.i immun. no.3:14-18 Mr '55. (MLRA 8:7)

1. Iz mikrobiologicheskoy laboratorii (zav. prof. L.G.Peretts) Sverdlovskogo Instituta epidemiologii, mikrobiologii i gigiyeny (dir. G.F.Bogdanov) i sanitarno-epidemiologicheskoy stantsii Sverdlovskoy oblasti (glavnyy vrach V.N.Bykova).

(SHIGELLA,
dysenteriae, survival in various objects)

IOFFE, Ye.I.

JAFFE, E. I.

Penicillin salve. Vest. vener. No. 4, July-Aug. 50. p. 38-9

1. Of the Clinic for Skin and Venereal Diseases of Stalingrad Medical Institute.

CLML 19, 5, Nov., 1950

IOFFE, Ye.I.; GUSEVA, L.P.

Local application of acriquine in the treatment of scrofuloderm and lupus vulgaris. Vest. vener. no.2:52-53 Mar-Apr 1951. (CLML 20:9)

1. Prof. E.I. Ioffe; Departmental Physician. 2. Of the Clinic for Skin and Venereal Diseases (Director--Prof. E.I. Ioffe), Stalingrad Medical Institute.

IOFFE, E.I.; BOGDANOVA, Ye.K.

Method of application of sleep therapy in dermatoses. Vest. vener., Moskva no. 6:54 Nov-Dec 1952. (CLML 24:1)

1. Professor for E. I. Ioffe. 2. Khabarovsk.

IOFFE, Ye.I.

Gelatin cap in prevention of mycosis of the scalp. Vest. vener., Moskva No. 1:46-47 Jan-Feb 52. (CIML 21:4)

1. Professor. 2. Of the Clinic for Skin and Venereal Diseases, Khabarovsk Medical Institute.

GRINBERG, G.D.; IOFFE, Ye.I.; ROSTIK, M.B.

Clinical and epidemiological evaluation of the measures for the control of poliomyelitis in Sverdlovsk Province. Vop. okh. mat. i det. 8 no.7:88 Jl '63. (MIRA 17:2)

1. Iz Sverdlovskoy oblastnoy sanitarno-epidemiologicheskoy stantsii.

UNANOV, S.S.; MAGAZANNIK, S.S.; OSHCHEPKOVA, A.N.; SHUTOV, A.V.; IOFFE, Ye.I.; KAMENEVA, A.L.; KURSAKOVA, A.S.; UTNITSKAYA, P.S.

Immunological prophylaxis of tick-borne encephalitis. Vop. virus. 10 no.4:462-467 Jl-Ag '65. (MIRA 18:8)

1. Moskovskiy nauchno-issledovatel'skiy institut virusnykh preparatov Ministerstva zdravookhraneniya SSSR i Sverdlovskaya oblastnaya sanitarno-epidemiologicheskaya stantsiya.

IOFFE, Ye. M.

BRASLAVSKIY, Iosif Moyseyevich [Braslavs'kyi, I.M.]; Yoffe, Ye.M. [Iofe, IE.M.], red.

[Formation and development of socialism's world-wide economic system] Utvorennia i rozvytok svitovoi ekonomichnoi systemy sotsializmu. Kyiv, 1957. 47 p. (Tovarystvo dlia poshyrennia politychnykh i naukovykh znan' Ukrains'koi RSR. Ser.7, no.1) (MIRA 12:3)
(Economics)

IOFFE, Ye. M.

IOFFE, Yevgeniy Mikhaylovich [Ioffe, IE.M.]; KOROID, O.S., red.

[Problems of socialist reproduction] Deiaki pytannia sotsialistychnoho vidtvorennia. Kyiv, 1958. 39 p. (Tovarystvo dlia poshyrennia politychnykh i naukovykh znan' Ukrains'koi RSR. Ser.2, no.5) (MIRA 12:3)
(Russia--Economic conditions)

IOFFE, Ye.M.; PIGIN, S.M.

Type S71 electrometers-wattmeters. Nov. nauch.-issl. rab. po metr. VNIIM no.6:1-4 '64. (MIRA 18:3)

LOGGINOV, G.I.; IOFFE, Ye.M.

Solution of the components of serpentine with recovery of the reagent. Sbor. trud. MISI no.50:64-69 '65.
(MIRA 18:12)

BAIAKHVICH, V.L.; IOFFE, Ye.Z.

Sedimentation of finely-ground sintered aluminum oxide in suspensions. Trudy MKHTI no.24:151-154 '57. (MIRA 11:6)
(Aluminum oxide) (Sedimentation analysis)

IOFFE, Yu., inzh.

Using precast reinforced concrete in building steam electric power stations. MTO no.5:30-31 My '59. (MIRA 12:8)
(Electric power plants)

SEMENOV, V.A.; IOFFE, Yu.A.; GUSEVA, L.L.

Clinical aspects of Dercum's syndrome. Sov.med. 26 no.12:102-106 D '62. (MIRA 16:2)

1. Iz kliniki nervnykh bolezney (zav. K.M. Gorbacheva) Moskovskogo oblastnogo nauchno-issledovatel'skogo klinicheskogo instituta imeni M.V. Vladimirskogo (dir. - zasluzhennyy vrach RSFSR P.M. Leonenko).

(CORPULENCE)

SEMENOV, V.A.; GUSEVA, L.L.; IOFFE, Yu.A.

Clinical aspects of Melkersson-Rosenthal syndrome.
Zhur. nevr. i psikh. 62 no.2:273-276 '62. (MIRA 15:6)

1. Klinika nervnykh bolezney (zav. K.M. Gorbacheva) Moskovskogo oblastnogo nauchno-issledovatel'skogo klinicheskogo instituta imeni M.F. Vladimirskogo.
(PARALYSIS, FACIAL) (EDEMA)
(TONGUE--DISEASES)

STOYANOV, B.G.; GUSEVA, L.L.; IOFFE, Yu.A.

Meningeal phenomena in the Melkersson-Rosenthal syndrome.
Zhur. nevr. i psikh. 65 no.11:1659-1661 '65. (MIRA 18:11)

1. Kafedra kozhnykh i venericheskikh bolezney (zaveduyushchiy - prof. B.M.Pashkov) Moskovskogo meditsinskogo stomatologicheskogo instituta (direktor - prof. S.I.Babichev) Ministerstva zdravookhraneniya RSFSR i Klinika nervnykh bolezney Moskovskogo oblastnogo nauchno-issledovatel'skogo klinicheskogo instituta im. Vladimirskogo (direktor P.M.Leonenko).

STOYANOV, B.G.; SEMENOV, V.A.; GUSEVA, L.L.; IOFFE, Yu.A.

Melkersson—Rosenthal syndrome. Sov. med. 28 no.10:61-67 O '65. (MIRA 18:11)

1. Kafedra kozhnykh i venericheskikh bolezney (zav.- prof. B.M. Pashkov) Moskovskogo meditsinskogo stomatologicheskogo instituta i klinika nervnykh bolezney (zav.- prof. F.A. Poyemnyy) Moskovskogo oblastnogo klinicheskogo instituta imeni Vladimirskogo (dir.- P.M. Leonenko).

IOFFE, Yu. K.

"Multiplet Nature of the gamma-Lines of RaC'", Iz. Ak. Nauk SSSR, Ser. Fiz., 13, No. 4, 1949.

Leningrad Phys-Tech. Inst., AS.

IOFFE, Yu. K.

"The Fine Structure of the Gamma-Lines of RaC'"II, Iz. Ak. Nauk SSSR, Ser. Fiz., 13, No. 4, 1949.

Leningrad Phys-Tech. Inst. AS.

IOFFE, Yu. K.

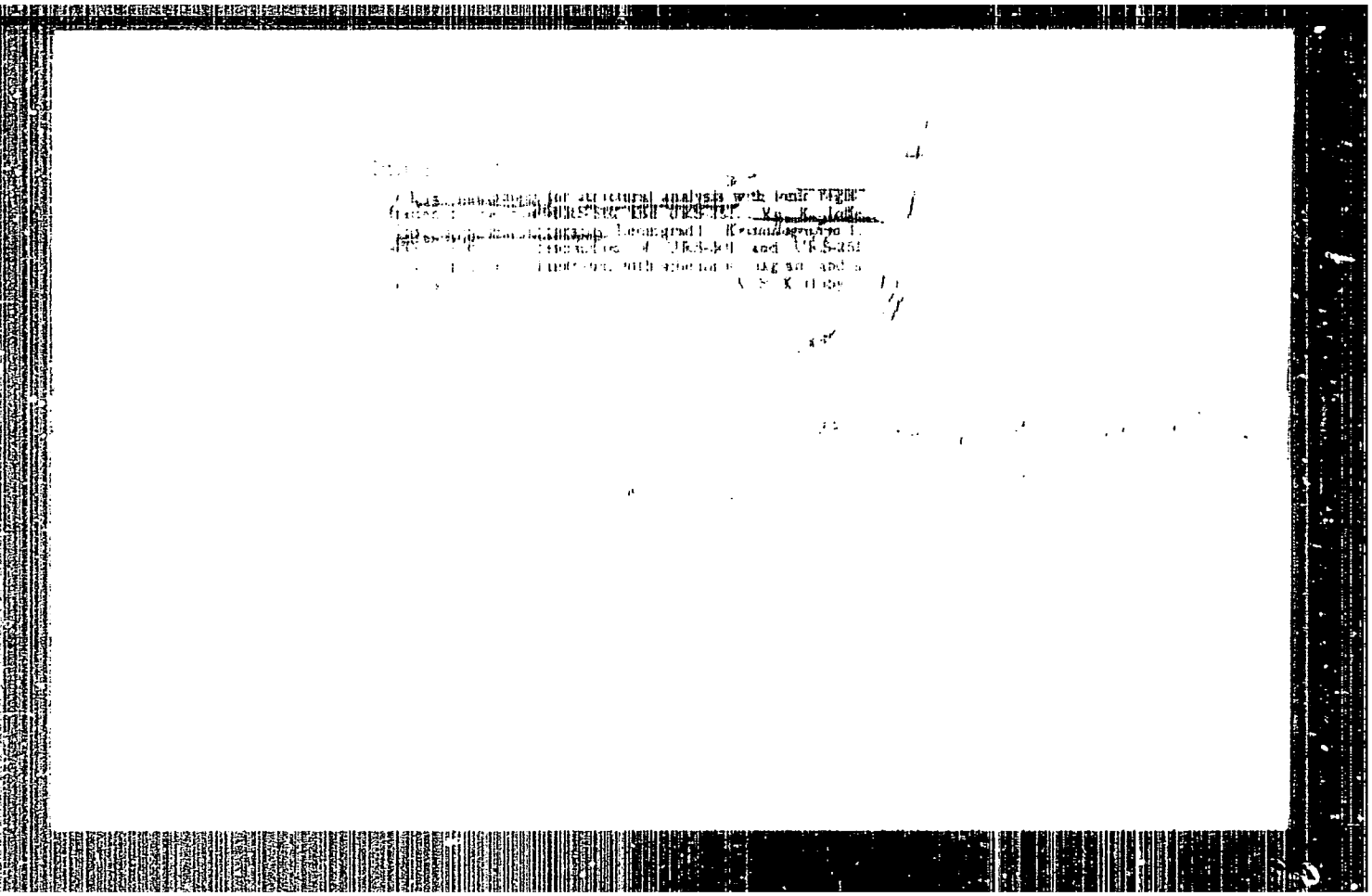
"Spectrum of Positrons of Internal Conversion Corresponding to the Transition 1414 keV in RaC'", Iz. Ak. Nauk SSSR, Ser. Fiz., 13, No. 4, 1949.

Leningrad Phys.-Tech. Inst. AS.

IOFFE, Yu. A.

"Spectrum of the Electrons of Internal Conversion from an Ampoule Full of Radium Emanation (Radon)", I & II, Iz. Ak. Nauk SSSR, Ser. Fiz., 13, No. 4, 1949.

Leningrad Phys.-Tech. Inst., AS of the USSR.



SOV/70-4-4-14/34

AUTHORS: Ioffe, ~~Yu.K.~~ and Sukhodrev, A.M.

TITLE: A Scintillation Counter for Soft X-rays and Certain Results of its Application in a Fast-operating Diffractometer

PERIODICAL: Kristallografiya, 1959, Vol 4, Nr 4, pp 554-562 (USSR)

ABSTRACT: A scintillation counter and new electric circuits have been fitted to the URS50I diffractometer increasing its speed by a factor of 8 and its accuracy by a factor of 3. The chief difference is the replacement of the Geiger counter with a dead time of $\sim$ 1 μs by a NaI(Tl) scintillation counter with a deadtime of 1-10 mμs.

The maximum count rate of the latter is about 10^6/sec and the luminosity of contemporary X-ray tubes is too low to use this speed properly. The advantages of the scintillation counter are: 1) resolving time of $\sim$0.25 μs, permitting a count rate of 50 000/sec; 2) near 100% efficiency as against 45% for CuK_α and a Geiger tube;

3) energy discrimination. A serious difficulty with the scintillation counter is that background pulses from

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A Scintillation Counter for Soft X-rays and Certain Results of its Application in a Fast-operating Diffractometer

thermally-emitted electrons are of the same height as those it is required to count. A diagram of the geometry used with an FEU-29 photomultiplier is shown. The crystal is cut into a disc 2 mm thick, operations being performed in a dry atmosphere. A 0.2 mm thick Be window is used with a 1 μ Al foil for reflecting the light. The window diameter is 30 mm. The photomultiplier has a sensitivity of 16 photoelectrons per 100 light quanta, the background pulses are less than 12 mV and the resolution is better than 8.5%.
The counters were tested in the diffractometer with Cr, Cu and Mo radiation monochromatised by reflection from a quartz crystal. Two methods were used for separating signal impulses from the background: a) by pulse height on an oscillograph screen and b) by pulse height discriminator circuits with a channel width of 1.5 V. The efficiencies were 75%, 90% and 98% for Cr, Cu and Mo radiations, respectively. The background was about 0.5 counts per sec. For the three wavelengths, the

A Scintillation Counter for Soft X-rays and Certain Results of its Application in a Fast-operating Diffractometer

efficiencies are 1.2, 2.5 and 10 times better than for an argon-filled Geiger counter. A block diagram of the electrical circuits of the diffractometer is given. An overall increase in speed of eight times in the operation of the diffractometer was achieved together with gains in reliability and stability, The detection of weak lines is three times better. Specimen diffractograms are reproduced showing the improvements. Acknowledgments are made to M.I. Teumin. There are 6 figures and 11 references, of which 7 are Soviet, 1 German and 3 English.

SUBMITTED: November 19, 1958

SOV/48-23-5-2/31

24(7)
AUTHORS: Zhukovskaya, D. M., Ioffe, Yu. K.

TITLE: Determination of the Attenuation Coefficient of Soft X-rays in Beryllium (Issledovaniye koeffitsiyenta oslableniya myagkikh rentgenovykh luchey v berillii)

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959, Vol 23, Nr 5, pp 541 - 544 (USSR)

ABSTRACT: Beryllium has been recently employed as a material for the window of X-ray tubes with accelerating voltages up to 60 kv, as are required for therapy, for material investigations and similar purposes. Table 1 contains a comparison between the attenuation coefficients μ/ρ given by seven papers written by other scientists and those determined by the authors. The wavelength range in which measurements were made, is from 2.3 Å to 0.7 Å. In table 2 the determination results of the transmission I/I_o (in %) of $K_\alpha Cr$, $K_\alpha Fe$, $K_\alpha Cu$ and $K_\alpha Mo$ radiation are again compared in the abovementioned wavelength range and at beryllium layer thicknesses of from 0.3 to 0.9 mm with those contained in the other seven papers. A scheme of the

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experimental arrangement is shown (Fig 1), the primary elements of which are a monocrystal spectrometer, a scintillation counter and a Geiger counter. After a closer description of the system, an interpretation is given of measuring results. The formula is first supplied, by which the μ/ϱ was determined at an accelerating voltage of 8 kv up to 25 kv with 2 ma. The background caused by the dispersion of the X-ray is stated as being $< 1\%$. Table 3 supplies the results obtained by the authors with the Geiger and scintillation counter, and the respective mean values are specified. Table 4 contains the values of μ/ϱ computed with the abovementioned formula for the various wavelengths, and their error is also given. A diagram represents the dependence of I/I_0 and μ/ϱ on the wavelength in beryllium. A description follows of results obtained from similar investigations on aluminum; they are summarized in two tables. The result obtained from the comparison between the Russian industrially-produced vacuum-tight beryllium plates and the beryllium window of an American X-ray tube for structural investigations of the Firm Machlett is

regarded as an essential result yielded by these investigations, revealing the μ/ρ of the American tube to be larger by 2 to 2 1/2 times than that of the Russian type. Finally, the authors thank G. M. Nikolayenko, M. M. Umanskiy and Ye. M. Fridman for assistance and advice given.There are 2 figures, 6 tables, and 10 references, 5 of which are Soviet.

ASSOCIATION: Goszavod Upravleniya radiotekhnicheskoy promyshlennosti Leningradskogo sovnarkhoza (State Factory of the Radiotechnical Industry Administration of the Leningrad Council of National Economy)

L 17321-63 EPR/EWT(1)/BDS AFFTC/ASD Ps-4 WW

ACCESSION NR: AP3004909 S/0120/63/000/004/0158/0159

AUTHOR: Lozinskiy, M. G.; Fridman, Ye. M.; Nikolayenko, G. M.; Ioffe, Yu. K. 62

TITLE: Sharp-focused higher-power X-ray tube for structure analysis 21

SOURCE: Pribory*i tekhnika eksperimenta, no. 4, 1963, 158-159

TOPIC TAGS: X-ray tube, structure analysis, URS-70 X-ray outfit, sharp-focused X-ray tube

ABSTRACT: A new design of a linear-focus X-ray tube with electrostatic focusing of the electron beam is described. A 215-mm-long copper housing has a vacuum-tight beryllium window and water-cooled anode. Tube prototypes were tested in a regular URS-70 X-ray outfit; stable operation was noted at a rated voltage of 45 kv and test voltage of 50 kv. Maximum currents: 2.5 ma with Mo and Cu mirrors and 500 microamp, with Fe, Co, Ni, or Cr mirrors. A sample

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L 17321-63

ACCESSION NR: AP3004909

of a diffraction curve of an alpha-quartz polycrystal determined with the above X-ray tube is presented. Orig. art. has: 3 figures.

ASSOCIATION: none

SUBMITTED: 25Jul62 DATE ACQ: 28Aug63 ENCL: 00

SUB CODE: PH NO REF SOV: 000 OTHER: 000

Card 2/2

L 17320-63 EPR/EWT(1)/BDS AFFTC/ASD Ps-4 WW
ACCESSION NR: AP3004910 S/0120/63/000/004/0160/0161

61

AUTHOR: Teumin, M. I.; Nikolayenko, G. M.; Ioffe, Yu. K.

TITLE: Sharp-focused end-window X-ray tube with specimen-anode contact

SOURCE: Pribory*i tekhnika eksperimenta, no. 4, 1963, 160-161

TOPIC TAGS: X-ray tube, end-window X-ray tube, sharp-focused X-ray tube, specimen-anode X-ray tube

ABSTRACT: An experimental model is described of a permanent-magnet, copper-anode, air-cooled X-ray tube whose grounded anode permits direct contact with the test specimen. The electron gun from an electron-beam tube was used as a cathode. Stable operation is reported at 45 kv with 300-500 microamp current; focus diameter is 50-100 microns. Characteristic X-ray intensity and its ratio to "white"-spectrum intensity are similar to those of a regular sharp-focused side-window X-ray tube, such as BSV-5. An X-ray picture of a 0.25-mm

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L 17320-63

ACCESSION NR: AP3004910

-thick Ge plate is presented. Orig. art. has: 3 figures.

ASSOCIATION: none

SUBMITTED: 25Jul62 DATE ACQ: 28Aug63 ENCL: 00

SUB CODE: PH NO REF SOV: 000 OTHER: 000

Card 2/2

LOZINSKIY, M.G.; FRIDMAN, Ye.M.; NIKOLAYENKOM G.M.; IOFFE, Yu.K.

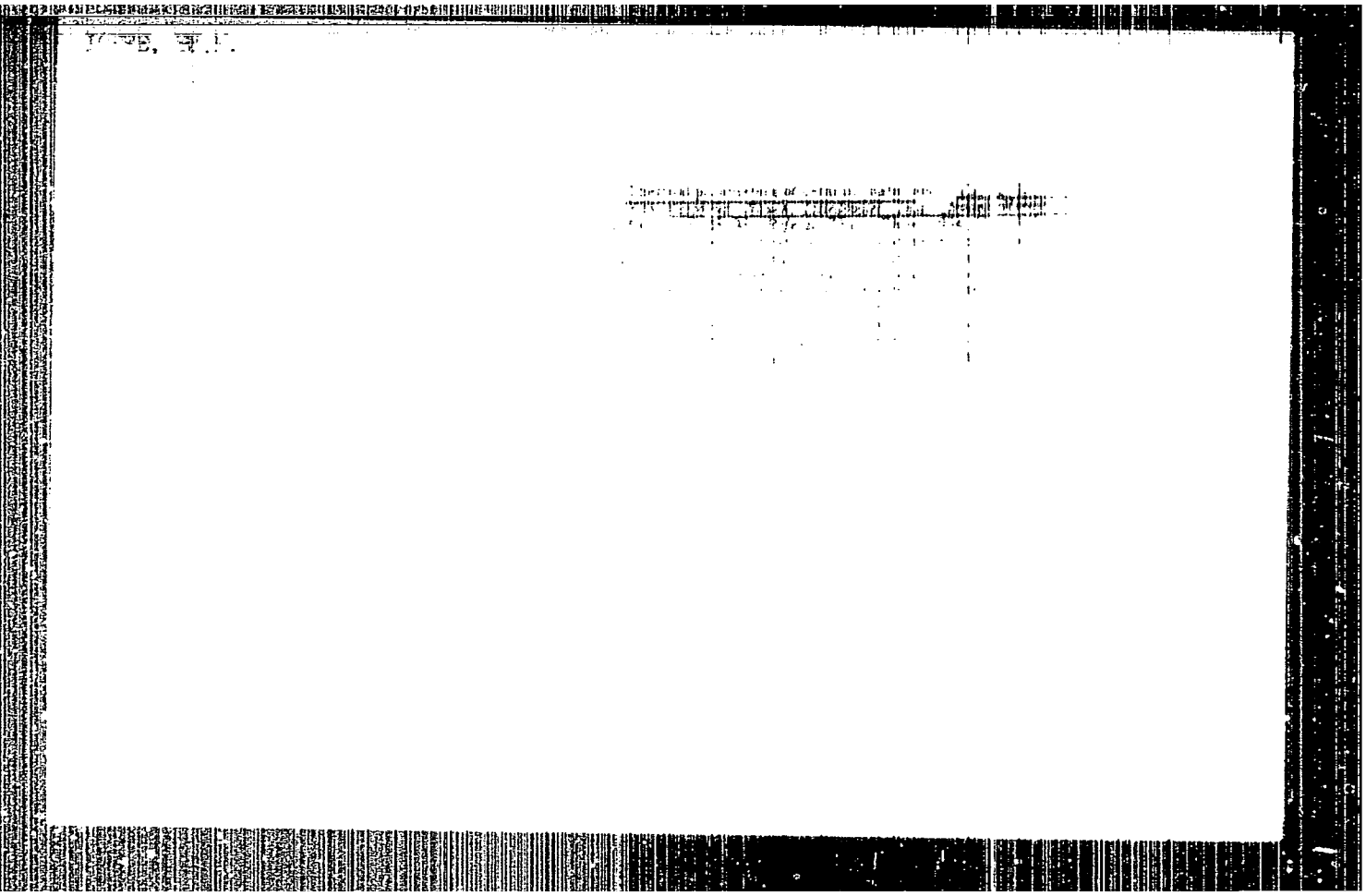
Sharp-focused high power X-ray tube for structural analysis.
Prib. i tekh. eksp. 8 no.4:158-159 Jl-Ag '63. (MIRA 16:12)

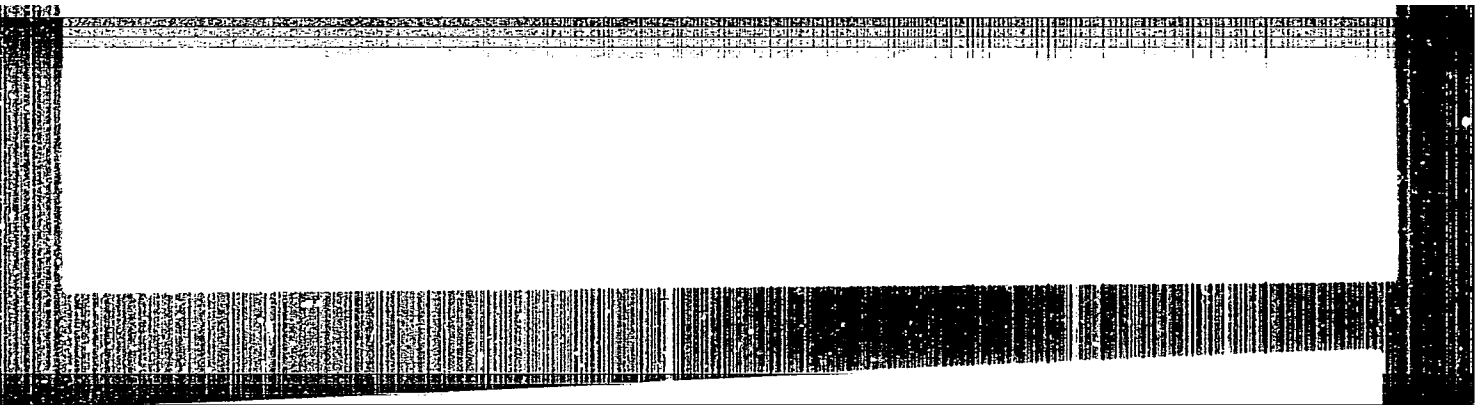
TEUMIN, M.I.; NIKOLAYENKO, G.M.; IOFFE, Yu.K.

Sharp-focused X-ray tube with end outlet and direct anode contact of the object analyzed. Prib. i tekh. eksp. 8 no.4:160-161 Jl-Ag '63. (MIRA 16:12)

SOBOLEVSKAYA, G.D.; IOFFE, Yu.K.; NIKOLAYENKO, G.M.; FRIDMAN, Ye.M.

High-power small-sized X-ray tube for fluorescent X-ray spectroscopy. Zav. lab. 31 no.11:1414-1415 '65. (MIRA 19:1)





APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618630006-1"

IOFFE, YU. R.

Sverdlov, P.M. and Ioffe, Yu. R. "Unification of cross sections of ferroconcrete elements," Stroit. Prom-st', 1948, No. 12, p. 243

SO: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949

IOFFE, YU. R.; SVERDLOV, P. M.

Reinforced Concrete Construction Electric Power Plants.

Supporting reinforced structures used in electric power station construction.
Elek. sta., 23, no. 2, 1952.
Inzh.

SO: Monthly List of Russian Accessions, Library of Congress, April 1952 1999 Uncl.

SVERDLOV, P.M., inzhener; IOFFE, Yu.R., inzhener.

Main building of the electric power plant made of precast reinforced concrete. Strei.prom.34 no.6:20-24 Je '56. (MLRA 9:9)
(Precast concrete construction) (Electric power plants)

IOFFE, Yu.R., inzhener.

Industrial solutions for the underground parts of the main buildings of heat and electric power plants (TETs). Elek.sta. 28 no.9:6-10 S '57. (MIRA 10:11)

(Electric power stations)

IOFFE, Yuliy Rafailovich; KUPTSOV, Ivan Pavlovich; ORLOV, M.M., inzh., red.; SLABODKINA, G.N., red.; LEBEDEVA, L.V., tekhn. red.

[Design and construction of large thermal electric power plants of precast reinforced concrete]Proektirovanie i stroitel'stvo moshchnykh teplovykh elektrostantsii iz sbornogo zhelezobetona. Moskva, Orgenergostroi, 1962. 77 p. (MIRA 15:10)
(Electric power plants)
(Precast concrete construction)

KUPTSOV, Ivan Pavlovich; IOFFE, Yuliy Rafailovich; BELINSKIY, S.Ya., kand. tekhn. nauk, red.; LARIONOV, G.Ye., tekhn. red.

[Design and construction of thermal electric plants] Proektirovanie i stroitel'stvo teplovykh elektrostantsii. Moskva, Gosenergoizdat, 1962. 366 p. (MIRA 16:2)
(Electric power plants--Design and construction)

IOFFE, Yu.R., inzh.

Linking of the components of prefabricated reinforced concrete frames of thermal electric power plants. Elek. sta. 33 no.7: 42-48 Jl '62. (MIRA 15:8)
(Electric power plants) (Precast concrete construction)

IOFFE, Yu.R., inzh.

Standard design for the main body of thermal electric power plants. Prom. stroi. 40 no.7:4-8 Jl '63. (MIRA 16:10)

LEBEDEV, V.V.; IOFFE, Yu.S.; CHETVERUSHKIN, B.V.

Treatment of skull traumas accompanied by injuries of the venous sinuses of the dura mater. Trudy Inst. im. N.V. Sklif. 8:54-57 '63. (MIRA 18:6)

1. Institut skoroy pomoshchi imeni Sklifosovskogo, Moskva.

CHETVERUSHKIN, B.V.; RUMYANTSEV, V.B.; IOFFE, Yu.S.

Anesthesia in carrying out cerebral angiography in patients with acute craniocerebral traumas. Trudy Inst. im. N.V. Sklif. 8:122-126 '63. (MIRA 18:6)

1. Institut skoroy pomoshchi imeni Sklifosovskogo, Moskva.

IOFFE, Yu.S.; OSTROVSKAYA, I.M.

Diagnostic significance of cerebral angiography in the clinical aspects of emergency surgery. Khirurgiia 40 no.11:103-107 N '65. (MIRA 18:7)

1. Neyrokhirurgicheskoye otdeleniye (zav. - kand. med. nauk V.V. Lebedev) I Travmatologicheskoy kliniki (zav. - prof. I.I.Sokolov) i rentgenologicheskoye otdeleniye (zav. - prof. nauk M.K.Shcherbatenko) Nauchno-issledovatel'skogo instituta skoroy pomoshchi imeni Sklifosovskogo (glavnyy khirurg - prof. B.A.Petrov), Moskva.

SVENCHANSKIY, Aleksandr Danilovich; GUTTERMAN, Kirill Davydovich; IOFFE, Yu.S., red.

[Automatic control of electric furnaces] Avtomaticheskoe regulirovanie elektricheskikh pechei. Moskva, Energiia, 1965. 478 p. (MIRA 18:12)

YEFROYMOVICH, Yu.Ye., kand.tekhn.nauk; PIROZHNIKOV, V.Ye., inzh.; IOFFE, Yu.S., inzh.

Mechanisms of arc glow and heat exchange in electric steel melting furnaces. Elektrotekhnika 36 no.1:26-31 Ja '65. (MIRA 18:3)

Improve planning in mining enterprises. Gor.zhur. no.6:12-14 Je '57. (MIRA 10:8)

1.Ural'skiy gornometallurgicheskiy institut (for Kamenskiy).
2.Trest Kazakhstalerude (for Ioffe).
(Mining engineering) (Mine management)

L 22670-66 EWT(1)/FCC/EWA(h) GW

ACC NR: AP6006782 SOURCE CODE: UR/0033/66/043/001/0175/0180

AUTHOR: Ioffe, Z. M.

ORG: Institute of Radiophysics, Gorkiy State University (Radiofizicheskiy in-t Gor'kovskogo gos. universiteta)

TITLE: Solar wind flow around a comet

SOURCE: Astronomicheskiy zhurnal, v. 43, no. 1, 1966, 175-180

TOPIC TAGS: solar wind, comet, shock wave, plasma velocity

ABSTRACT: The author considers the possibility of dividing phenomena in cometary tails and in the plasmic head into two groups: stationary and nonstationary. Stationary phenomena are due to the solar wind and should occur when the wind is stationary. Nonstationary phenomena are due to periodic corpuscular streams, in part to nonstationary wind. This latter may be considered a modulating factor, superposed on a statistically steady background. The author shows that the profile of the plasma head and the cylindrical form of the tail may be explained by consideration of steady flow of solar wind about the comet. The nucleus of the comet within the plasma stream is considered a source. The pressure at the

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interface between the source and the plasma stream may be approximated by Newton's formula: $p = \frac{1}{2}\rho_1 V_1^2 c_p^* \sin^2\alpha$, where α is the angle of inclination of a surface element to the advancing stream, ρ_1 and V_1 are the density and velocity of the stream, and c_p^* is a function of the Mach number and the isentropic factor γ. Here M = 8, $\gamma = 2$, and c_p^* is then 1.67. By analogy with a source in an incompressible medium, it is shown that for a solar wind with $H \sim 5 \cdot 10^{-5}$ gauss, pressure on the order of magnetic, velocity of $3 \cdot 10^7$ cm/sec, and a density of 5/cm^3, the velocity of the perpendicular shock wave may be expressed by $V_f = \frac{\rho_1}{\rho_f} V_1$ (index 1 indicates values before passage of stream, f after). The ratio $\frac{\rho_f}{\rho_1} = \frac{\gamma+1}{\gamma-1} = 3$, and the recessional velocity of the shock wave is therefore $V_1/3$. It is concluded that the effect of approaching velocity of the stream and the effect of density ratio as here indicated are predictable only with characteristic dimensions of the comet. The author expresses his thanks to E. A. Kaplan for guidance in this work. Orig. art. has: 1 figure and 7 formulas.

SUB CODE: 03/ SUBM DATE: 10May65/ ORIG REF: 009/ OTH REF: 004

Card 2/2 HW

L 10490-66 EWT(l)/FCC GW

ACC NR: AP6019676 SOURCE CODE: UR/0033/66/043/003/0655/0658

52
51
13

AUTHOR: Ioffe, Z. M.

ORG: Institute of Radiophysics, Gor'kiy State University (Radiofizicheskiy in-t Gor'kovskogo gos. universiteta)

TITLE: Comet 12 dragged by solar wind. 12 II

SOURCE: Astronomicheskiy zhurnal, v. 43, no. 3, 1966, 655-658

TOPIC TAGS: plasma drag, drag space, supersonic drag, Mach number, subsonic velocity, hypersonic velocity, shock wave, comet tail

ABSTRACT: The plasma or air drag around an object may be considered as a drag around a blunt body. If this body is large enough, there will be two surfaces. One is the shock wave (α), and the other is the boundary between the media. These surfaces divide the drag space into three regions: 1) unperturbed drag, 2) drag after passing the shock wave, and 3) body gas. Introducing the dimensionless parameters $\bar{p}$ pressure, $\bar{v}$ velocity, and $\bar{\rho}$ density, and using the supersonic drag from tables, it may be proved that, with distance from the top of the body, the pressure on the body tends toward constant. In the case of a cylindrical body, the pressure in infinity does not depend upon the

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diameter of the cylinder or the shape of the top. The asymptotic value of the dimensionless pressure $\bar{p}$ for a cylinder is equal to 0.096 at Mach 6, and 0.033 at Mach 10. The same method for solving a drag problem is applied to the case when the body is a comet with subsonic velocity and the drag stream has hypersonic velocity. The pressure p_0 at the attack point and the asymptotic pressure p_∞ must be known. At M = 6, $p_\infty = 0.25 \cdot 10^{-9}$, and $p_0 = 0.72 \cdot 10^{-8}$, the asymptotic pressure $\bar{p}_\infty = 0.037$ $(\gamma - 1)/2\gamma$, where γ is the entropic coefficient. When $\gamma = 2$, $\bar{p}_\infty = 0.009$ and when $\gamma = 1.4$, $\bar{p}_\infty = 0.005$. When the comet has a supersonic velocity, a second shock wave must exist. The direction of the comet tail is conditioned by interaction between the plasma of the comet tail and the solar wind. In conclusion the author found that 1) the tail axis is fixed by the outflow of ions near the comet's head, 2) the head is better protected against external ions, and 3) the solar wind does not influence the tail's direction. The author thanks S. A. Kaplan for directing the work and O. M. Belotserkovskiy for consultations. Orig. art. has: 1 figure and 10 formulas. [EG]

SUB CODE: 03/ SUBM DATE: 27Nov65/ ORIG REF: 005/ OTH REF: 003/
ATD PRESS: 5019

Card 2/2

Ioffe, Z.M.

GURVICH, M.A.; IOFFE, Z.M.

Labor productivity and production costs in Krivoy Rog Basin mines. Gor. shur. no.7:6-10 Jl '57. (MLRA 10:8)

1. Nachal'nik planovo-proizvodstvennogo otdela instituta Krivbassproyekt (for Gurvich). 2. Nachal'nik planovogo otdela tresta Dzerzhinskruda (for Ioffe).
(Krivoy Rog--Iron mines and mining--Costs)
(Labor productivity)

GURVICH, Mikhail Abramovich; IOFFE, Zinoviy Moiseyevich; OSMOLOVSKIY, Valentin Vasil'yevich; BERLIAUZ, L.A., red.; BRUSHTEYN, A.I., red.izd-va; MIKHAYLOVA, V.V., tekhn.red.

[Economics, organization and planning in enterprises of the mining industry; collection of examples and problems] Ekonomika, organizatsiia i planirovanie predpriiatii gornorudnoi promyshlennosti; sbornik primerov i zadach. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1958. 232 p. (MIRA 12:4)
(Mining industry and finance)

OSMOLOVSKIY, V.V.; IOFFE, Z.M.

Ways of reducing the cost of ore. Met. i gornorud. prom. no.6: 45-48 N-D '64. (MIRA 18:3)

OSMOLOVSKIY, Valentin Vasil'yevich; IOFFE, Zinoviy Moiseyevich; GURVICH, Mikhail Abramovich; BOCHKOVSKAYA, Irina Vladimirovna; PINEGIN, I.I., otv. red.; OSVAL'D, E.Ya., red.izd-va; IL'INSKAYA, G.M., tekhn. red.

[Industrial organization and planning in the ore mining industry] Organizatsiia proizvodstva i planirovanie v gornorudnoi promyshlennosti. [By] V.V.Osmolovskii i dr. Moskva, Gosgortekhizdat, 1963. 351 p. (MIRA 16:11)
(Mine management)

ACCESSION NR: AP4020568 S/0057/64/034/003/0426/0428

AUTHOR: Ioffe, Z. M.

TITLE: Influence of inertia of electrons on shock front thickness in magnetohydrodynamics

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 34, no. 3, 1964, 426-428

TOPIC TAGS: plasma, hydrodynamics, electron inertia, conduction anisotropy, shock wave front, shock front thickness, magnetohydrodynamics

ABSTRACT: The influence of inertia of electrons on the thickness of an oblique shock wave front is considered. It is shown that if $a = c/\omega_p$ (where ω_p is plasma frequency) is less than the characteristic dimensions, the shock front thickness strongly depends on conduction anisotropy and is almost independent of electron inertia. When a is greater than the characteristic dimensions, the dependence is quite the opposite. An expression for shock front thickness in the case of a perpendicular shock wave is obtained with electron inertia taken into account. Orig. art. has: 12 formulas.

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ACCESSION NR: AP4020568

ASSOCIATION: Institut astrofiziki AN Tadzhikskoy SSR (Astrophysics Institute, AN Tadzhik SSR)

SUBMITTED: 28Feb63 DATE ACQ: 31Mar64 ENCL: 00

SUB CODE: PH NO REF SOV: 002 OTHER: 000

Card 2/2

OSMOLOVSKIY, V.V.; IOFFE, Z.M.; SOKOLOV, V.P.; DULIN, I.L.

Improvement of planning and stimulation of interest in bonuses on the part of miners (discussion of the article by A.V. Baronenkov). Gor. zhur. no.10:22-24 O '63. (MIRA 16:11)

1. Krivorozhskiy gornorudnyy institut (for Osmolovskiy). 2. Dzerzhinskiy gosudarstvennyy trest zheleznorudnoy promyshlennosti, Krivoy Rog (for Ioffe). 3. Pechorskiy nauchno-issledovatel'skiy ugol'nyy institut (for Sokolov, Dulin).

ZYMALEV, G.S.; IOFFE, Z.M.; PODKAMINNYY, G.F.

Economical operation at Dzerzhinskrud Trust mines. Gor.zhur. no.1:15-17 Ja '65. (MIRA 18:3)

1. Trest Dzerzhinskruda, Krivoy Rog.

IOFFE, Z.M.

Accelerations in ionizing comet's tails. Biul. Inst. astrofiz. AN Tadzh. SSR no.31:16-22 '62. (MIRA 17:11)

ZYMALEV, G.S., gornyy inzh.; IOFFE, Z.M., inzh.-ekonomist

Capital investments and capital yield in the ore dressing plants of the "Dzerzhinskruda" Trust. Gor. zhur. no.10:30-33 O '65. (MIRA 18:11)

1. Trest Dzerzhinskruda, Krivoy Rog.

IOFFE, Z.M.

Solar-wind flow about a comet. Astron. zhur. 43 no. 1:175-180 Ja-F '66 (MIRA 19:2)

1. Radiofizicheskiy institut Gor'kovskogo gosudarstvennogo universiteta. Submitted May 10, 1965.

LAPIN° L.N.; IOFFE-GOLUBCHIK, G.I.; PRIYEV, I.G.

The use of trace elements in functional uterine hemorrhages.
Akush.i gin. 36 no.1:91-95 Ja-F '60. (MIRA 13:10)
(HEMORRHAGE, UTERINE)

IOFFE-GOLUBCHIK, G.I., prof.; FARKHADI, V.F., assistent

Cytology of the epithelium of the uterine mucosa in climateric hemorrhages following administration of trace elements. Med. zhur. Uzb. no.3:67-69 Mr '60. (MIRA 15:2)

1. Iz akushersko-ginekologicheskoy kliniki Samarkandskogo gosudarstvennogo meditsinskogo instituta imeni I.P.Pavlova.
(UTERUS--HEMORRHAGE) (CLIMACTERIC) (TRACE ELEMENTS)

IOFFE-GOLUBCHIK, G.I., prof.; BLYAKHMAN, S.D., kand. med. nauk

Air embolism in obstetric and gynecological practice and problems of its diagnosis in a cadaver. Nauch. trudy SamMI 22:139-143 '63. (MIRA 17:9)

1. Iz kafedry akusherstva i ginekologii i kafedry sudebnoy meditsiny Samarkandskogo meditsinskogo instituta.

IOFFE-GOLUBCHIK. YE. I., Prof.

Genitourinary Organs

Therapy of fistulas according to Buiko's method. Akush. i gin., No. 3, 1952.

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GALINON, L.S., kand. ekon. nauk; IOFFE-GONCHARUK, N.A.; KOTSAREVA, T.G.; SOZINOVA, O.A.; STEKLOVA, A.N.; KHURGINA, Z.A.; KOTKOV, M.I., otv. red.; NADEZHDINA, A., red. izd-va; TELEGINA, T., tekhn. red.

[Control over wage fund disbursement] Kontrol' za raskhodovaniem fondov zarabotnoi platy. Moskva, Gosfinizdat, 1962. 117 p. (MIRA 15:7)

1. Gosudarstvennyy bank Moskvy (for Ioffe-Goncharuk, Kotsareva, Sozinova, Steklova, Khurgina). 2. Nachal'nik Otdela kontrolya za zarabotnoy platoy Pravleniya Gosudarstvennogo banka SSSR (for Kotkov).

(Moscow—Banks and banking) (Moscow—Wages)

IOFFEE, I.L., prof.; YAKSANOV, Yu.A.

Clinical significance of the topography of infiltrates and abscesses of appendicular origin. Sov. med. 28 no.1:61-66 Ja '65. (MIRA 18:5)

1. Kafedra gospital'noy khirurgii (zav. - doktor med. nauk G.N. Zakharova) i kafedra operativnoy khirurgii (zav. - prof. I.L. Ioffe) Saratovskogo meditsinskogo instituta.

GRABOVSKIY, V.A., kand.tekhn.nauk; IOFFINA, E.M., starshiy inzh.; NOVIKOVA, A.I., mladshiy nauchnyy sotrudnik; SKOMKANOVA, V.M., mladshiy nauchnyy sotrudnik

Intensification of the clarification of sulfite liquors in the causticizing shops of sulfate pulp factories. Trudy LTITSBP no.11:73-82 '62. (MIRA 16:10)

MIGUKIN, F.M., inzh.; ROGACHEVSKIY, TS.A., inzh.; IOFIK, B.M., inzh.; LEPYANSKIY, Ya.M., inzh.

New conveyer for lap transport. Tekst.prom. 21 no.5:51-53 My '61. (MIRA 15:1)

1. Gosudarstvennyy proyektnyy institut no.3.
(Textile industry--Equipment and supplies)
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IOFIN, A.A., inzh.

High-voltage switches for rural electric power distribution networks. Elektrotekhnika 34 no.10:15-18 O '63.
(MIRA 16:11)

IOFIN, G.A.; MONZA, A.Kh.; DUBYANSKIY, M.A.; MILENKO, M.A., general-mayor, red.; NEPODAYEV, Yu.A., red.; BUKOVSKAYA, N.A., tekhn. red.

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(Military art and science)

IOFIN, I.I. (Chita)

Hereditary nuclear anomaly of leucocytes according to modern biology. Terap.arkh. 27 no.1:72-74 '55. (MLRA 8:7)
(LEUKOCYTES, abnormalities,
Pelger's anomaly)

KATSNEL'SON, I.B., dotsent; BESSER, V.L.; IONOV, I.T.; GORIACHIY, M.P.; IOFIN, I.I.; CHARTORIZHSKIY, N.A., kand.med.nauk

Poisoning from castor bean seeds; clinical and experimental observations. Sov. med. 24 no. 2:131-135 F '60. (MIRA 14:2)
(CASTOR BEAN--TOXICOLOGY)

TINTMAN, Mukhim Izrailevich; IOFIN, I.I., retsenzent; KOVALEVA, V.D., otv. red.; ULANOVSKAYA, N.M., red.

[Design of municipal automatic telephone exchanges] Proektirovanie stantsionnykh sooruzhenii gorodskikh ATS. Moskva, Izd-vo "Sviaz'," 1964. 111 p. (MIRA 17:7)

IOFIN, S. L.

"Calculation of the Optimum Angle of Slope of the Open-works for Steeply Dipping Deposits." Sub 5 Jun 51, Moscow Inst of Nonferrous Metals and Gold imeni M. I. Kalinin

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

BOGOLYUBOV, B. P.; IOFIN, S. L.

Mining Engineering

Durability of walls of Krivoi Rog pit mines. Gorn. zhur. no. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1952, Uncl.

IOFIN, S.L.

[Stability of open-pit mine walls] Ustoichivost' bortov kar'erov. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1953. 90 p. (MLRA 6:12)

(Strip mining)

GOLOMOLZIN, A.I.; IL'YASHENKO, N.A.; IOFIN, S.L.; UDALKIN, M.B.

Cementation on shaft sinking in the Sankul'sai mine. Gor.zhur. no.3: 27-32 Mr '55. (MLRA 8:7)
(Shaft sinking)

IOFIN, S.L., kandidat tekhnicheskikh nauk; STERAKOV, M.L., gornyy tekhnik

Ways of improving ore breaking by deep boreholes in ore mines. Gor. zhur. no.7:17-20 Jl '55. (MLRA 8:8)
(Mining engineering)

IOFIN, Stanislav Leonidovich; KULIKOV, Aleksandr Vasil'yevich; KULIKOV, Vladimir Vasil'yevich; POLISHCHUK, Afanasiy Dmitriyevich; PROKOP'YEV, Ye.P., professor, doktor tekhnicheskikh nauk, retsenzent; REVAZOV, A.A., gornyy inzhener, retsenzent; RYCHIK, F.F., kandidat tekhnicheskikh nauk, redaktor; PARTSEVSKIY, V.N., redaktor izdatel'stva; MIKHAYLOVA, V.V., tekhnicheskiy redaktor

[Forced roof caving] Prinuditel'noe etazhnoe obrushenie. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1957. 34 p. (MLRA 10:7)
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All-Union Scientific Research Institute for Nonferrous Metals.
Gor. zhur. no.8:46-50 Ag '57. (MLRA 10:9)
(Nonferrous metals) (Mining engineering)

ADIGAMOV, Ya.M.; IOFIN, S.L.; NASUPA, N.A.; FEDOSOV, M.K.; SHCHEPANOV, P.A.

Improving the working of the Zolotushinskoye deposit. Sbor. trud. VNIITSVETMET no.4:20-36 '59. (MIRA 16:8)

(Mining engineering)

IOFIN, S.L.; PREOBRAZHENSKIY, L.M.

Ways of increasing the productivity of cable drilling. Sbor. trud. VNIITSVETMET no.4:94-107 '59. (MIRA 16:8)

(Boring)

IOFIN, S.L., inzh.

Research improving work safety for miners. Bezop.truda v prom. 4 no.8:7-9 Ag '60. (MIRA 13:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy gornometallurgicheskiy institut tsvetnykh metallov, g.Ust'-Kamenogorsk.
(Ust'-Kamenogorsk--Mining engineering--Safety measures)

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Systems of mining theick nonferrous metal deposits in Kazakhstan.
Gor. zhur. no. 1:27-34 Ja '61. (MIRA 14:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tsvetnykh metallov, g. Ust'-Kamenogorsk.
(Kazakhstan--Nonferrous metals) (Mining engineering)

IOFIN, S.L.; SKHARPETIN, V.V.; DRONOV, N.V.; KOP'YEV, V.Ya.; IVANOV, V.A.

Efficiency of mining systems in mines of the East Kazakhstan Economic Region. Gor. zhur. no.7:26-33 Jl '62. (MIRA 15:7)

L. Vsesoyuznyy nauchno-issledovatel'skiy institut tsvetnykh matallov, g. Ust'-Kamenogorsk.
(East Kazakhstan Province--Mining engineering)